PATENT COOPERATION TREATY

PCT IAP5 Rec'd PCT/PTO 27 JAN 2006

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 089498-0454	FOR FURTHER see ACTION as well as, w	Form PCT/ISA/220 here applicable, item 5 below.
International application No. PCT/US04/24527	International filing date (day/month/year) 29 July 2004 (29.07.2004)	(Earliest) Priority Date (day/month/year) 29 July 2003 (29.07.2003)
Applicant THE UNIVERSITY OF AKRON		
This international search report consists It is also accompanied 1. Basis of the Report a. With regard to the language, the language in which it was filed, u The internationa furnished to this Author with regard to any nucleot 2. Certain claims were found 3. Unity of invention is lacking the text is approved as subtractions.	of a total of 3 sheets. If by a copy of each prior art document cites international search was carried out on the international search was carried out on the international search was carried out on the basis of a transpirity (Rule 23.1(b)). If it is and/or amino acid sequence disclosed in the international search are considered and and are considered in the international search and international search are considered in the international search and international search are considered in the international Bureau.	basis of the international application in the
may, within one month from the drawings, a. the figure of the drawings to be as suggested by the drawings to be a suggested by the suggested by the drawings to be a suggested by the drawings to be a suggested by the suggested	ed, according to Rule 38.2(b), by this Autho om the date of mailing of this international so be published with the abstract is Figure No. I he applicant.	
as selected by the	is Authority, because the applicant failed to so is Authority, because this figure better character published with the abstract.	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/24527

IPC(7) US CL According to I	SIFICATION OF SUBJECT MATTER : C08K 3/04, H01B 1/18, 1/24 : 252/506, 507, 508; 428/359 International Patent Classification (IPC) or to both nation	nnal classification and IPC	
B. FIELD	S SEARCHED		
Minimum doci U.S. : 25	umentation searched (classification system followed by 2/506, 507, 508; 428/359	classification symbols)	
Documentation	n scarched other than minimum documentation to the ex	stent that such documents are included in	the fields searched
Electronic date	a base consulted during the international search (name of	of data base and, where practicable, sear	ch (erms used)
C. DOCL	JMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.
Х	X US 2003/0100653 A1 (CHACKO) 29 May 2003 (29.05.2003), Sections: 0012-0013, 0021-		1-5
 Y	0025, 0028-0033.		6-12
v	110 5 601 054 A (TENNENT et al) 25 November 199	7. (25.11.1997), Column 2, Lines 5-	1-5
X Y	16, Col-5, lines 21-24, Column 6, Lines 6-24.		6-12
x	X US 5,908,585 A (SHIBUTA) 1 June 1999 (1.06.1999), Abstract, Column 3, Lines 35-44; Column 4, Lines 37-47; Column 5, Lines 26-67; Column 6, Lines 37-43.		1-5
Υ Υ			6-7, 9, 11, 12
X	US 5,445,327 A (CREEHAN) 29 August 1995 (29.08.1995), Column 1, Line 48 to Column 2, Line 59; Column 3, Lines 40-50.		1-5 6, 7, 9, 11, 12
Y	US 6,277,303 B1 (FOULGER) 21 August 2001 (21. 54; Column 6, Lines 43-68; Column 7, Lines 7-42 C	08.2001) Abstract, Column 3, Lines 6- olumn 12, Table-1.	1-12
Furthe	r documents are listed in the continuation of Box C.	See patent family annex.	
1	Special categories of cited documents: 11 defining the general state of the art which is not considered to be	"T" later document published after the in date and not in conflict with the appl principle or theory underlying the in-	ication but cited to understand the
of partic	ular relevance pplication or patent published on or after the international filing date	-X" document of particular relevance; the considered novel or cannot be considered when the document is taken alone	claimed invention cannot be
establish specified		"Y" document of particular relevance; the considered to involve an inventive st combined with one or more other su being obvious to a person skilled in	ep when the document is ch documents, such combination
	nt referring to an oral disclosure, use, exhibition or other means	-	
priority	nt published prior to the international filing date but later than the date claimed	-& document member of the same patent family Date of mailing of the international search report	
	actual completion of the international search 2004 (21.10.2004)	1 6 NOV 20	04
Name and r	mailing address of the ISA/US	Authorized officer	Chitital
М	Tail Stop PCT, Attn: ISA/US	Dr. Yogendra Gupta	Shifted
P. A	ommissioner for Patents O. Box 1450 lexandria, Virginia 22313-1450	Telephone No. 572-272-1700	t'es
I Facsimile N	No. (703) 305-3230		

Form PCT/ISA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No. PCT/US04/24527

egory *	Citation of document, with indication, where appropriate, of the relevant passages	1, 3, 5, 6-11
X	US 5,512,399 A (KAWATA et al) 20 April 1996 (20.04.1996), Abstract, Column 2, Line 51	
 Y	to Column 3, Line 10.	2, 4, 12
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